General Notes for Industry
The government intends to procure approximately 60 error correction terminals with integral AFSK modems for narrow-band direct-printing (NBDP) telegraphy in the medium and high frequency ranges. The government considers these items to be commercial as defined by part 2 of the Federal Acquisition Regulations. Contract award is projected for November 1996.

It is contemplated that one unit (if ordered) would be delivered to the CG Yard, Baltimore, MD, within 30 days of contract award. The government would then conduct acceptance testing on this equipment for 30 days. Within 120 days of acceptance of this first unit, the contractor would deliver 60 units to USCG Engineering Logistics Center, Columbia, MD.

We are soliciting comments on any aspect of this draft specification.

Any information provided that you consider proprietary should be clearly marked as such (in the margin and by encircling in the body of your response). Each page containing such information which is marked "proprietary" will be handled in accordance with government guidelines for protection of proprietary information.
We request your input by 19 July 1996 to the following address: Commandant (G-ACS-1A/GAA), 2100 2nd Street SW, Washington, D.C. 20593-001. Please respond as completely as possible. You may respond to any part of the specification. To assist our review, please key your response to the paragraph number of the specification. The specification is also available on the world wide web at the following address: http://www.navcen.uscg.mil/dgps/dgeninfo/SITOR.SOW.TXT. We appreciate your participation.

If you have any further questions, you may contact the Contract Specialist, LCDR George Asseng at (202) 267-6206 or the Contracting Officer's Technical Representative, Mr. Tom Garlington at (703) 313-5677.

SPECIFICATION FOR SHIPBOARD

NARROWBAND DIRECT PRINTING (NBDP)

EQUIPMENT
1.0 SCOPE.
1.1 General. This specification is for shipboard equipment to meet the Narrow Band Direct Printing (NBDP) component requirements of the Global Maritime Distress and Safety System (GMDSS).

1.1.1 Classification.

(a) MF/HF NBDP (SITOR) Modem.
1.2 Background. The International Maritime Organization (IMO) has included NBDP requirements in amendments to the Safety of Life at Sea (SOLAS) Convention. The equipment will be used operationally to assist in prosecuting search and rescue missions and to enhance safety at sea for cutters.
1.3 Major Hardware Deliverables. All equipment identified to meet the requirements of this specification shall be commercial off-the-shelf (COTS) items. Equipment contractors shall provide NBDP equipment that is fully compliant with the ITU Radio Regulation, CCIR Recommendation 625 (NBDP), and this specification.
1.4 Major Documentation Deliverables. The contractor shall provide operation and maintenance manual(s) that cover all parts of the equipment.
1.5 Government Furnished Equipment. No government-furnished equipment (GFE) is required in this specification.
1.6 Precedence. Any ambiguity or conflict between this specification and applicable documents shall be resolved as follows: (1) this specification, (2) ITU Radio Regulations (3) CCIR Recommendation 625 (NBDP), (4) referenced military and non-government standards and documents.

2.0 APPLICABLE DOCUMENTS.
2.1 Applicability. The following documents form a part of this specification and are applicable to the extent specified herein.

CCIR Recommendation 625. Direct-printing telegraph equipment employing automatic identification in the Maritime Mobile Services.

International Telecommunications Union (ITU)

Radio Regulations.

3.0 REQUIREMENTS.
3.1 GENERAL REQUIREMENTS.
3.1.1 Power Supply. Equipment shall be powered from the ship's main source of electrical energy (110-120VAC/60 Hz).
3.1.2 Physical Dimensions. The equipment shall not exceed the following; size - width 18", depth 12", height 5"; weight 12lbs. The equipment shall be 19" rack mountable.
3.2 NBDP PERFORMANCE STANDARDS.
3.2.1 General.
3.2.1.1 The NBDP system, which may consist of more than one piece of equipment, shall be capable of operating on single-frequency channels and on single- and two-frequency channels.
3.2.1.2 The equipment shall provide for the following categories of communications using both voice and narrowband direct printing (NBDP):
a. distress, urgency and safety;
b. ship operational requirements; and
c. public correspondence.
3.2.1.3 The equipment shall comprise at least:
a. an integral control unit or one or more separate control units;
b. an integral or separate narrowband direct printing facility;
c. an integral or separate AFSK radio modem.
3.2.1.4 Control. It shall be possible to conduct distress and safety communications from the position, or in the vicinity of the position, from which the vessel is normally navigated.

3.3 Transceiver. The Coast Guard will utilize existing shipboard transceivers. Prospective bidders shall illustrate how their equipment will connect to the Sunair AN/URC-116(V). For more information write to:

Sunair Electronics, Inc.
3101 S.W. 3rd Avenue
Fort Lauderdale, FL 33315-33893.12

Narrowband Direct Printing Facility.
3.4 The facility shall conform to the provisions of CCIR Recommendation 625. It shall provide for the use of maritime mobile service identities in accordance with Appendix 43 of the ITU Radio Regulations. The facility shall be capable of operating in the FEC and ARQ modes on the single-frequency channels allocated for distress NBDP operation.
3.4.1 The NBDP facility shall provide:
a. means to demodulate and modulate AFSK signals at 100 baud;
b. means to decode and encode messages;
c. means necessary for composing and verifying messages to be transmitted; and
d. means for providing a record of received messages.
3.5 DOCUMENTATION. The contractor shall provide one complete operation and maintenance manual for each equipment under this contract.
4.0 SHIPPING. Exterior shipping containers shall be marked with caution markings and the following shipping address:

Commanding Officer
USCG SUPPLY CENTER
Warehouse Annex

6751 Alexander Bell Drive
Columbia, MD 21046-2102
M/F Project Code 75A